

REMARKS

Claims 1-11 were presented for examination. All claims were rejected under 35 USC §103(a). The Examiner has rejected claim 1 as obvious over Dijakovic in view of Vobach and Begele. The remaining claims are rejected as obvious in view of various combinations of the citations. Claim 1 is the only independent claim and so all of the rejections rely on Dijakovic, Vobach and Begele teaching every limitation of the claim 1. The combination does not meet this standard in relation to the original claims nor the amended claims submitted here.

The current invention is a dual function random number generator and stream cipher generator, having a crypto-engine that operates as EITHER a random number generator OR a stream cipher generator. Put another way, the random number and stream cipher generators are alternative functions that can be preformed by the same hardware. The device has a controller to control whether the crypto-engine operates as the random number generator or the stream cipher generator.

Dijakovic discloses an encryption device having a random number generator and a stream cipher generator. Dijakovic uses the random number generator as a feeder whose output is combined by an exclusive-or with the input to the stream cipher generator. Dijakovic does not, and cannot, operate as either a random number generator or a stream cipher generator alternatively. Also, Dijakovic does not disclose an encryption device having a controller nor three multiplexers as suggested by the examiner. The encryption device of Dijakovic comprises merely a random number generator, an exclusive-or, three block ciphers and a single de-multiplexer (DEMUX). Vobach and Begele teach about seed signals and key signals but they do not overcome the limitations in the teachings of Dijakovic. Thus, the combination of Dijakovic, Vobach and Begele does not meet the requirement of disclosing every claim limitation.

The Applicant asks the Examiner to reconsider the amended claims and issue a Notice of Allowance.

Respectfully submitted,
JACKSON WALKER L.L.P.



Thomas E. Sisson
Reg. No. 29,348
112 E. Pecan Street, Suite 2100
San Antonio, Texas 78205
Phone: (210) 978-7700
Fax: (210) 978-7790
Attorneys for Applicant



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Laura Pope
Laura Pope